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There is also an excess of cattle. In 1950 there were about 450,000 head of cattle for which cattle tax was paid, but in fact they are considerably more numerous. It is estimated that out of these 450,000 there is a surplus of 200,000. Again, although veterinary assistance has lessened the incidence of many cattle diseases, it is highly probable that there has been an excessive cattle population for a very long time.

This overpopulation by both men and cattle, which is increasingly rapidly transforming the country into a desert, is the most pressing problem for those who are in charge of the country at the present time. But—and this is why I have stressed it so much—the type of human occupation which is responsible for it had prevailed for several hundred years at the time chosen for this study. The Ruanda thus have long had to adapt themselves to an ecological situation allowing them a very narrow security margin in the fulfilment of the primary condition for survival, food.

3. FOOD

It is mainly by agriculture and cattle-rearing that the people managed to get from the land as much food as their implements and their abilities allowed.

Hunting played very little part in their quest for food. Only the Twa, for whom hunting was a traditional occupation, ate game, which is another reason why they were despised by the Hutu and Tutsi. Hunting was significant in two connexions only. In the first place it was a means of providing the Tutsi with a supply of skins and ivory. Skins were used at the court for clothing and ornament, and war dancers wore loin-cloths made of leopard or civet skins and head-dresses decorated with the long white hair of colobus monkeys. In the second place the Tutsi regarded hunting as a sport. They liked to show their adroitness with spears and javelins, bows and arrows. But the meat of the quarry was left to Twa who had tracked the game, and to dogs.

Fishing has never been very much practised, though lakes in Ruanda are numerous, Kivu on the western border, Mohasi, Bulera, Mugesera, &c. Before the introduction of tilapia (a fish well adapted to these waters and excellent to eat) into these lakes in 1936, the kind of fish to be found there was neither very abundant, nor edible. In any case, the eating of fish, even when very good according to European standards, was regarded as disgusting. Even now it is very difficult to persuade people to eat

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One may wonder whether this demographic factor appeared to the Tutsi as a purely natural fact completely beyond their control, or whether they tried to maintain that fortunate proportion. We know that they made it difficult for a Hutu to enter their caste, but it does not seem that they favoured a restriction in the number of their group and an increase in the Hutu group. They shared with the Hutu a very high valuation of fertility and appreciated families with numerous offspring. It should not be forgotten that if a decrease in population would have contributed towards giving each member of the Tutsi caste a greater share in the wealth of the group in an imperceptible degree, for the individual, to have many children was a way to obtain also a greater share of wealth in a very perceptible manner. I suspect that the latter consideration was much clearer than the former for any Tutsi. It is also questionable if the bringing about of the first situation would have been psychologically compatible with the attitude of self-assertion of a domineering caste of warriors. At all events the demographic situation of Ruanda has been a factor favouring, even making possible, the economic exploitation of a majority by a minority.

A third factor which made the second so crucial was the type of economy of the country. Because of the relatively poor soil, the irregularity of the rains, and the methods of cultivation, there was not a very considerable surplus. Having to subsist on a very limited national income, the rulers had to cope with an economic problem in the fundamental meaning of the term—that is, they had to organize a way of life with means insufficient to meet needs. This emphasized the capital importance of compulsory labour and tributes, of regular and efficient collection, and of an apportionment of levies which did not let any prospective taxpayer escape.

A limited character of national resources is certainly a circumstance adverse to the centralization of a government. Indeed, a very centralised government needs a complex machinery: agencies, army, messengers, civil servants, local delegates, &c. Such an organization had been built up in Ruanda in spite of the small economic surplus.

A biological element also has been significant in the establishment and maintenance of Tutsi power in Ruanda. This was the difference in physical appearance between Tutsi and Hutu. Whatever may be the objectivity of physical caste characteristics,